



PN99-0133-2-8

Sintered Metal Filters

Problem

INEEL's Three Mile Island spent fuel transfer project needed to trap radioactive particles during drying of spent nuclear fuel debris previously stored under water.

Baseline Technology

Use of a freestanding high-efficiency filtration system.

Innovative Technology

Sintered Metal Filters are compact high-efficiency filters directly attached to dry storage containers to efficiently trap gas- and liquid-borne particles.

Comparison

This filter enabled the project to prevent the spread of radioactive particles from fuel debris during the drying process and while in storage.

Benefits

This filter provided a cost-effective method for containment of radioactive particles and contributed to successful completion of an Idaho Settlement Agreement milestone for transfer of spent fuel debris into dry storage.

SPENT NUCLEAR FUEL PROGRAM

Project: ID-SNF-104N
Constructed New Facilities – Non Defense